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# MODEL FL10 Controls

## Flame Detector Control Module

**2 Alarm Relays**  
**1 Fault Relay and RS-485**

### SPECIFICATIONS

#### Input Power

18-30 VDC, < 1 Watt

#### Input Limits

Industry standard flame detection sensors with a 4-20 mA DC output  
 0 mA Fault Condition  
 4 mA Safe Condition  
 20 mA Alarm Condition

#### Alarm Relays

2-alarm condition relays form "C" contacts,  
 5 amps @ 30 VDC  
 1-fault condition relay form "C",  
 5 amps @ 30VDC

#### Module Dimensions

1" Wide, 5.5" High, 8" Deep

#### Front Panel Indicators

Input power green LED  
 Alarm condition red LED  
 Fault condition red LED

#### Front Panel Switch

Reset/Acknowledge

#### Electrical Classification

General Purpose, non-hazardous

#### Warranty

2 year warranty  
 5 year fixed fee service policy

### DESCRIPTION

Detcon Model FL-10 is a single sensor control module designed for use with industry standard flame detection devices featuring a 4-20 milliamp output signal. Status indication is via front panel color coded LED's; green for power input, red for alarm condition and red for fault condition. The FL-10 control module features latching or non-latching relay programming and a front panel reset/acknowledge switch.

Model FL-10 control module is addressable via RS-485 Modbus serial communication. Input power requirement is 18-30 VDC. Each module is equipped with a normally energized fault condition relay and 2 alarm condition relays. Alarm condition relays can be programmed as normally energized or normally de-energized. Relay contacts are form "C" and rated for 5 amps at 30 VDC.

The FL-10 alarm control module is part of Detcon Model series 10 single sensor control card product group. A wide range of system designs is available including rack and panel mount mainframe assemblies, NEMA 4X weatherproof enclosures and NEMA 7 explosion proof enclosures. This flexible product group facilitates easy integration of fire and gas detection devices providing indication of real time status indication and alarm output functions in compact and completely modular pre-engineered systems.



### USER PROGRAMMABILITY

Model FL-10 alarm relays are easily configured for latching or non-latching operation with an alarm acknowledge option. Field programming is via a series of well labeled dip switches and programming jumpers.